M A S S FLUX ANI) ELECTRONDENSITY POWER SPECTRUM IN HIGH-SPEED STREAMS ANI) SLOW SOI AI< WIN]) DURINGTHEL ATE DECLINING PHASE OF THE Sol AR CYCLE

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During the late declining phase of the solar cycle, (he tilt of the solar magnetic dipole with respect to the Sun's rotation axis leads to large-scale organization of the solar wind, such that alternate regions of high-speed streams (associated with coronal holes) ant] slow solar wind (associated with the streamer belt) are observed in the ecliptic plane. The high-speed streams and slow solar wind arc manifested in Doppler scintillation observations near the Sun by sharply divided regions, distinguished by the absence and presence of scintillation enhancements, respectively (Woo and Gazis, Nature, 1993). We present results on mass. flux and the spatial wavenumber spectrum of the electron density fluctuations for both types of solar wind deduced from Pioneer Venus S-band (13 cm) and Magellan S- and X- (3.6 cm) band Doppler scintillation measurements inside 0.3 AU where in situ measurements have not yet been made.

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